

# DIN EN 1728:2014-02 (E)

## Furniture - Seating - Test methods for the determination of strength and durability (includes Corrigendum :2013)

---

<b>Contents</b>		<b>Page</b>
<b>1</b>	<b>Scope .....</b>	<b>5</b>
<b>2</b>	<b>Normative references .....</b>	<b>5</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>5</b>
<b>4</b>	<b>General test conditions .....</b>	<b>6</b>
4.1	Preliminary preparation .....	6
4.2	Application of forces .....	6
4.3	Tolerances .....	6
<b>6</b>	<b>Test procedures - Chairs other than Work Chairs .....</b>	<b>16</b>
6.1	General .....	16
6.2	Determination of seat and back loading points .....	17
6.2.1	General .....	17
6.2.2	Seating with a back rest .....	17
6.2.3	Seating without a back rest .....	17
6.3	Determination of Back Angle .....	19
6.4	Seat static load and back static load test .....	20
6.5	Seat Front Edge Static Load .....	22
6.6	Vertical load on back rests .....	22
6.7	Horizontal forward static load test on back rests .....	23
6.8	Foot rest static load test .....	23
6.9	Leg rest static load test .....	23
6.10	Arm rest sideways static load test .....	24
6.11	Arm rest downwards static load test .....	24
6.12	Headrest static load test .....	25
6.13	Vertical upwards static load on arm rests .....	26
6.13.1	Seating which may be moved when occupied .....	26
6.13.2	Stacking seating .....	26
6.14	Vertical static load on auxiliary writing surfaces .....	26
6.15	Leg forward static load test .....	26
6.16	Leg sideways static load test .....	27
6.17	Combined seat and back durability test .....	28
6.18	Seat front edge durability test .....	30
6.19	Durability test on seating with a multi-position back rest .....	31
6.20	Arm rest durability test .....	31
6.21	Foot rest durability test .....	31
6.22	Auxiliary writing surfaces durability test .....	32
6.23	Tipping seat operation .....	32
6.24	Seat impact test .....	32
6.25	Back impact test .....	33
6.26	Arm rest impact test .....	34
6.27	Drop tests .....	35
6.27.1	Drop test for multiple seat units .....	35
6.27.2	Drop test for stacking seating .....	36
6.27.3	Drop test from the height of a table .....	37
6.28	Backward fall test .....	38
6.29	Castor and chair base durability .....	38
6.30	Rolling resistance of the unloaded chair .....	39
<b>7</b>	<b>Test procedures - Work Chairs .....</b>	<b>39</b>